

## STEREO MOC Status Report

Time Period: 2022:269 (Sept 26) - 2022:275 (Oct 2)

### STEREO Ahead (STA) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- On day 271 (Sept 28), during the DSS-25 support, the MOC lost telemetry briefly at 0157z, due to a Data Capture and Delivery Subsystem (DCD) failover. This anomaly resulted in the loss of one minute of SSR data and real-time telemetry. The MOPs team notified DSN the next morning and all the affected data was recovered and transferred to the MOC. See DR #N112282 for more information.
- On day 275 (Oct 2), during the DSS-34 support, turbo decoder lock was lost intermittently between 0344z and 0436z. This anomaly resulted in the loss of 17 frames of SSR data. The MOPs team repositioned the SSR pointers and recovered all the affected data.

2. The following spacecraft/instrument events occurred during this week. The Ahead observatory operated nominally during this week.

- On day 270 (Sept 27), the 150th momentum dump was executed successfully at 1600z, which imparted an estimated delta V of 0.045 m/sec. This was the 69th momentum dump conducted without gyro use. After thruster operations completed, there was a 1.2 degree of roll angle error. Fine pointing stabilized 3.3 minutes after completion of the momentum dump.
- As of day 275 (Oct 2), all PLASTIC systems are behaving well, except there is a moderate background count rate, which the team is continuing to monitor.
- The average daily science data return for Ahead was 6.7 Gbits during this week.